The Products & Services Directory is a comprehensive listing of mining and tunneling industry resources, products, and experts available to assist and support industry professionals. The Products & Services Directory is distributed in Mining Engineering magazine in May, it is reprinted as a separate stand-alone magazine in November, and distributed to all SME members. It is available online at www.smenet.org. The Products & Services Directory is distributed at all in person industry events, and meetings throughout the year, and is supported digitally with 100,000 digital impressions. For information on being featured in the Products & Services Directory, contact Gary Garvey at garvey@smenet.org or 303-948-4243.

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Exyn Technologies pioneers robotic autonomy and reality capture with the Exyn Nexys for precise mapping in complex, GPS-denied environments. Leveraging SLAM technology, Nexys’ modular autonomy maps areas of interest in real-time, offering flexible deployment to support quick decision-making for survey teams in the field. Operators can plan and execute missions through a ruggedized tablet, with all intelligence taking place in the Nexys payload, reducing the chance of human error and enabling the robot to safely fly beyond visual line of sight. After safely returning home, teams can quickly post-process and georeferenced rich datasets to be used in downstream mining software for volumetric analysis and change detection. Exyn Nexys-powered robots are being operated in mines all over the world, and have partnered with mining industry leaders such as Santvik, Vale, and EY.

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Northwest Laborers-Employers Training Trust Fund

Safety and Hazard Awareness for Tunnels (SHAFT) program
www.nwlett.edu

The Safety and Hazard Awareness for Tunnels (SHAFT) program, developed by the Northwest Laborers-Employers Training Trust with input from a team of industry experts and stakeholders, is comprised of a blend of classroom discussion and interactive use of materials and mockups.

The curriculum offers comprehensive safety training for both new and experienced tunnel professionals; classes focus on tunnel safety, rail, and utilities.

The training facility, located in Elma, Washington, features a TBM mockup, rail, and access to 1,400’ of 12’ diameter tunnel – providing students with a unique educational experience.

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University of Arizona
mge.engineering.arizona.edu

The Department of Mining and Geological Engineering at the University of Arizona is one of the top-ranked mining engineering programs in the nation. Longstanding industry ties, a focus on sustainability, generous scholarships, a mine of its own, global connections and a tight-knit, entrepreneurial community make this the destination of choice for students the world over.

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Penn State John and Willie Leone Family Department of Energy and Mineral Engineering
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Contact:
Dr. Sekhar Bhattacharyya, Chair of Mining Engineering Program
Dr. Sanjay Shrivastav, Department Head,
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Penn State College of Earth and Mineral Sciences
John and Willie Leone Family Department of Energy and Mineral Engineering
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Virginia Tech’s Department of Mining and Minerals Engineering is one of the largest and most prominent mining-related programs in North America and enjoys a reputation as a global leader in the field, with a stated mission to serve society through education and innovation that supports the safe, efficient, and environmentally responsible production of energy and mineral resources. The department houses world-class facilities in a newly renovated Holden Hall, with over 100,000 sq. ft. of cutting-edge research, teaching and advising space. The Department is home to two renowned and highly productive research centers: the Virginia Center for Coal and Energy Research, and the Center for Advanced Separation Technologies. Its tenured and tenure-track faculty are globally recognized experts in mineral processing, geoenergy, and mine health and safety. A diverse research portfolio includes federal, state and privately funded projects, with annual expenditures averaging about $6,000,000 in the past eight years and a notable focus on capacity building and graduate student education.

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mining-info@vt.edu

West Virginia University Department of Mining Engineering
https://mine.statler.wvu.edu/

The Department of Mining Engineering at West Virginia University provides educational programs at the bachelor’s, master’s and doctoral levels. Degree options at the undergraduate level include mining engineering, and dual degree programs in mining engineering and civil and environmental engineering, mining engineering and civil engineering and geology. At the graduate level, degrees are offered in mining engineering and mineral processing. Our mission is to produce graduates who are thoroughly prepared to meet the operational and engineering challenges of the mining industry, and to continue their studies in graduate programs. For more information about our Department, please visit https://mine.statler.wvu.edu/

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Northwest Laborers Training
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The Safety Hazard Awareness for Tunnels (SHAFT) program was developed by the Northwest Laborers-Employer Training Trust (NWLETT) with input from a team of industry experts and stakeholders.

The SHAFT program seeks to fill a void by providing quality, comprehensive safety training for both new and experienced tunnel professionals. The curriculum is comprised of a blend of classroom discussion and use of materials and mockups in classes focused on tunnel safety. Our facility is located in Elma, Washington.

Although SHAFT is a component of our overall Laborers Apprenticeship program, the course is open to tunneling contractors seeking training for their employees or staff.

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Contact: Jim Mosley, MS., MBA., Program Analyst Energy & Mineral Resources Mission Area (EMMA), & MRP Outreach Coordinator
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For more information on Avanti’s injection grouts or applications, visit avantigrout.com.
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HYDRAULIC HAMMERS AND DRILLS

Yamamoto Rock Splitter Inc.
www.yamamotorocksplitter.com
Yamamoto Hydraulic Rock Splitters offers non-explosive excavation of hard rock without noise, vibrations or flyrock. The excavator-mounted rock splitters are based on the wedge principle and are the largest of its kind on the market. Applications include open pit excavation, highway widening, building foundations, shaft sinking, and tunneling. The first unit of Yamamoto Rock Splitter was supplied in 1981 and is known worldwide for high durability and reliability. The Drill & Split method is now standard for excavation in sensitive areas.

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The HYDRAULIC HAMMERS AND DRILLS section provides information on the Yamamoto Rock Splitter Inc., offering non-explosive excavation equipment for hard rock without noise, vibrations or flyrock. The drill & split method is now standard for excavation in sensitive areas. They offer two models, HRB-1000 and HRB-1700, for different hole sizes.

In the HYDRAULIC SYSTEM COMPONENTS section, Open Loop Energy is highlighted as a mining partner, offering a variety of hydraulic system components for efficient applications. This includes HydroStruts, Bladder Accumulators, and HydroSNUBB Snubbers for electric shovels, among other products.

The HOISTS AND HEADFRAMES section features FKC-Lake Shore, which provides design-build-install services for innovative hoisting and vertical conveyance systems.
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For over 100 years, ME Elecmetal has worked closely with mineral processors to help them increase productivity and reduce downtime by developing the most cost-effective and innovative products and services in the marketplace. ME Elecmetal offers complete solutions that include impact and abrasion-resistant liners for grinding mills and crushers, using alloys and designs unique to each specific application. In addition, we also provide a full array of the highest quality grinding media — from small-diameter forged steel balls to 6+ inch SAG balls. We deliver value to our customers’ operations with innovative solutions based on proven performance!
The text contains information about various companies and their products and services. Here is a brief summary:

- **Metso Outotec Canada Inc.**
  - [Website](https://www.metso.com)
  - Tel: 208-765-4231
  - 4164 W Industrial Loop
  - 276 N Corporate Drive

- **RockTech USA, Inc.**
  - [Website](http://www.rocktechusa.com)
  - Tel: +1-519-539-5853
  - 4164 W Industrial Loop

- **NobleMEIR, Inc.**
  - [Website](http://www.noblemeir.com)
  - Tel: +1(904)693-1090
  - 275 N Corporate Drive

- **TerraSource Global Website:** [www.terrasource.com](http://www.terrasource.com)
  - Timberland Equipment Limited
  - Roytec Global
  - TAKRAF Group
  - Weir Minerals

- **Roytec Global (Pty) Ltd**
  - [roytecglobal.com](http://roytecglobal.com)

- **TAKRAF Group**
  - [www.takraf.com](http://www.takraf.com)

- **Weir Minerals**
  - [www.global.weir](http://www.global.weir)

These companies offer a range of services including products and services for mining and industrial sectors, with a focus on efficiency, sustainability, and reliability.
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Master Builders Solutions is the world leader for reliable, customer-oriented product solutions to the underground mining sector. For more than 100 years, our innovations have become today’s industry benchmark; we supply customized solutions that perform in the ever-changing geological environments and challenging underground conditions.

Today we continue to support the underground mining sector with technological advancements that can directly enhance safety and improve productivity for a sustainable mining future.

The MasterRoc® product range is comprised of market-leading innovations and application expertise for the mining and tunneling industries. Our reliable, customer focused solutions include several outstanding technologies for:

- Shotcrete
  - Accelerators and Fibers
- Rock Bolting Resins
- Injection
- Chemical Grouts
- Cement Grouts
- Chemical Technologies for Mine Backfill
- Admixtures for Concrete
- Thin Spray-on Liner (TSL)

23700 Chagrin Blvd.

Beachwood, OH 44122

Telephone: 216-839-7500

Fax: 216-839-8830

E-Mail: james.lindsay@masterbuilders.com
Normet Americas Inc.
Normet is an industry-leading technology company offering continuous improvement to underground mining and tunnelling processes for increased safety, productivity and profitability. We work in close collaboration with our customers and utilise our process expertise amassed over thousands of mine and tunnel projects all over the globe into concrete actions and financial results for our customers.

We have a broad underground offering, including equipment for concrete spraying and transport, explosives charging, scaling, lifting, installation works, and logistics. We supply construction chemicals for sprayed concrete, admixtures, injection systems for ground and water control, waterproofing systems and additives for TBM technology. We have high quality and innovative rock reinforcement products that reduce the risk of accidents in challenging rock conditions. Our services are to ensure safety and productivity for our customers throughout the lifecycle this includes the supply of spare parts, rental equipment, remanufacturing and upgrades, field services, training and more.

Normet Americas, Inc.
1414 S Giadaola St I Salt Lake City, UT 84104 I United States of America
Tel. +1 801 5964700

Sika Corporation
usa.sika.com/STM

For more than a century, Sika has been pioneering mining and tunnelling processes with quality Sika Products and Services. Our service starts long before the spraying begins. With 40+ years of global experience, expect our professionals to be involved from start to finish on your shotcrete project. Our products and services include:

- STI Shotcrete Equipment, including our industry standard; Shot-Tech Robotic Arm, which can be mounted on many types of carriers.
- STI Shaftlining, a robotic system for lining/repairing shafts and tunnels. This new process is quick, non-disruptive, efficient and all at a lower cost than conventional techniques.
- STI Shotcrete Accelerators and admixtures, including our well-known Shotset 250 accelerator and STI Alkali Free.
- Technical Support Training: STI’s team of professionals understand, support and add value to every aspect of your shotcrete application.
- Auxiliary Equipment: pumps, hoses, everything you need for a complete system.

With a fully integrated, innovative, and high-quality product portfolio, Sika is your ideal business partner to help you face the challenges and requirements of the civil and underground construction industry.

Sika Corporation
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Shotcrete Technologies, Inc.
www.shotcretetechnologies.com
Shotcrete Technologies, Inc. is a Colorado Company with a global reach that supplies mining, tunneling and infrastructure projects with quality Shotcrete Products and Services. Our service starts long before the spraying begins. With 40+ years of global experience, expect our professionals to be involved from start to finish on your shotcrete project. Our products and services include:

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- STI Shaftlining, a robotic system for lining/repairing shafts and tunnels. This new process is quick, non-disruptive, efficient and all at a lower cost than conventional techniques.
- STI Shotcrete Accelerators and admixtures, including our well-known Shotset 250 accelerator and STI Alkali Free.
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Efficient separation plants form the basis for the successful use of fluid-assisted mining methods for tunneling, microtunneling, horizontal directional drilling (HDD) and diaphragm wall construction. Worldwide, the specifications for construction companies when using bentonite flushes and suspensions are becoming more and more demanding. On the one hand, this concerns ensuring the rheological properties of the rinses used during operation and, on the other hand, the disposal of the used rinses. SCHAUENBURG MAB supplies complete systems for the treatment of these slurries, which have been in use worldwide for many decades. Our systems for slurry treatment are continuously optimized for the various applications based on many years of experience. Thus, we can support our customers with our plants to meet these requirements sustainably and economically.

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We at Quinn Process Equipment Company (QPEC) have been designing and manufacturing QPEC Solvent Extraction Mixer-Settlers for over 45 years. In that time we have produced a wide range of QPECXS systems for flows from a few liters per minute up to 7.5 cubic meters per minute flow rates. We have produced numerous systems recovering minerals for the “GREEN” energy EV’s and “STRATEGIC” metals that have attracted so much attention the past few years.

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SPECTROMETERS

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Radom’s Microwave Coupled Atmospheric Plasma-Optical Emission Spectrometer 1000 (MICAP-OES 1000) delivers a quality product while increasing efficiency, profitability, and customer satisfaction. This small, lightweight optical emission spectrometer will provide trace metal analyses faster than traditional methods while decreasing the cost per analysis. Learn more about microwave inductively coupled atmospheric plasma – optical emission spectrometers which require minimal infrastructure upgrades but maximum productivity.

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Eriez designs and manufactures specialty flotation equipment, with more than 1,000 flotation column systems installed worldwide for cleaning, roughing and scavenging applications in base metals, gold, industrial minerals, coal and oil sands, phosphate and potash. Eriez also offers hydraulic separators, slurry distributors, spargers and an array of laboratory and pilot-scale equipment.

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125 W 500 N
North Salt Lake City, UT 84054
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sales@ssandpf.com

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# STRESS RELIEF

## BONAL TECHNOLOGIES

**Website: www.Bonal.com**

Meta-Lax, the name of a stress relief process and equipment, has been helping countless number of mining and tunneling companies minimize the time and cost of heat treat stress relief, as well as minimize weld cracking and weld distortion. Bonal Technologies developed and patented a SUB-harmonic vibration stress relief process they call Meta-Lax. According to the US Dept. of Energy “Meta-Lax is a proven substitute for 80-90% of the heat treatment stress relief applications.”

Meta-Lax, as a stress relief process, matches heat treat stress relief for quality and consistency, has limitless size and weight capacity, and is portable. As used during welding, Meta-Lax “Weld Conditioning” prevents most weld cracking and weld distortion, at the time of welding and later in service. Meta-Lax stress relief has been routinely used on components such as booms, augers, screen decks, motors and more. Meta-Lax Weld Conditioning has been used on components such as bucket teeth, grader blades, crusher housings, ripper shanks, pulverizers, and more. Bonal offers a lineup of Meta-Lax equipment through sales and rentals.

Bonal Technologies, Inc.
1300 N. Campbell Rd.
Royal Oak, MI 48067
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Carlson Software provides user-led solutions from software to precision laser measurement and mapping technology. Celebrating 40 years of innovation and service, Carlson is focused on offering dynamic function and capability in all its solutions. Users can enjoy connected workflows in aerial mapping and post flight processing, machine design and planning, machine control for quarries, surveying, blast pattern design, and more. Carlson instrumentation and technology offerings include borehole deviation measurement systems, cavity mapping for unreachable areas, lightweight and accurate GNSS receivers, onboard machine guidance systems and long-range surface scanners. Fill in the gaps of what you’re missing or utilize a complete Carlson workflow package with support from start to finish. Do more. See more. Know more. All with Carlson.

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Celebrating over 10 years serving our customers, PhySep Components and Service specializes in the supply of spare parts and service for mineral processing and separating equipment. OEM & OES spare parts and consumables: motors, bearings, brushes, Kevlar® processing belts, anti-static/ionization bars, transformers, electrical components, and more. PhySep Components and Service is a division of NobleMEIR, Inc., an independent supplier and manufacturer.

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EMESENT
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Emesent is a world-leader in drone autonomy, LiDAR mapping, and data analytics. Founded in 2018, Emesent has since built a reputation for delivering high-quality data capture in the mining, infrastructure, survey, and mapping industries.

Our flagship product, Hovermap, is a smart mobile scanning unit that combines advanced collision avoidance and autonomous flight technologies to map hazardous and GPS-denied environments. Hovermap is uniquely versatile, it can be handheld, drone- or vehicle-mounted to map challenging, inaccessible areas. With a wide range of applications, Hovermap is being used by customers around the world.

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We have also served as consultants to engineering companies, research organizations, legal firms, and academia. We work on a flexible basis and can provide services from complete project responsibility to limited solids/liquid separation testing and consulting. We will work within tight budget constraints, under secrecy agreement, and will provide our services on a competitive basis.

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Recognized as the leader in safety leadership and risk management training Balmert Consulting is a global management consulting firm headquartered in Seabrook, Texas. We offer training products and consulting services designed to achieve a sustainable improvement in execution in operations.

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Our ideas work: it’s that simple. They come from our own experience: what we’ve seen work, and what we’ve successfully done ourselves. The techniques and practices are simple: instead of programs or processes that create more work, our tools are simply things that leaders do to lead — better. The tools can be immediately put into practice and will start making a difference immediately.

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Frontier Precision
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Frontier Precision is a distributor of geospatial survey and mapping products, unmanned aerial and ROV products, as well high precision satellite imagery and software. We are an employee-owned company, with over 35+ years of experience working in mining environments. Since our founding in Bismarck, ND in 1988, we’ve expanded our footprint to South Dakota, Minnesota, Colorado, Alaska, Montana, Idaho, Hawaii, Oregon, Washington, Florida, and Texas. Additionally, Frontier provides service in the states of Wyoming and Utah, along with our remote Frontier Precision Unmanned specific offices in Ohio, North Carolina, Florida, and Arizona. We pride ourselves on offering unmatched customer service with industry experts who always find a solution to fit your needs.

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United Rentals is your go-to partner for customized, cost-effective excavation support solutions. With nearly 100 Trench Safety locations and the largest fleet of shoring and underground excavation equipment in North America, we ensure you get what you need, when you need it, on time and on budget. Recognizing that some projects demand unique approaches, our dedicated engineering department offers tailor-made underground solutions that align with your specific requirements and budget constraints. Our innovative and efficient methods not only meet but often exceed traditional shoring techniques, helping you save both time and money. Trust United Rentals to deliver the expertise and equipment necessary for the successful completion of your excavation projects.

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Established in 1973, Akkerman develops, manufactures and supports powerful and versatile guided boring, microtunneling, pipe jacking, sliplining, tunneling and earth pressure balance underground construction solutions that accurately install 4-inch through 14-foot pipe diameters for a broad range of ground conditions and project challenges. Since 1973, our industry-leading equipment has enabled contractors worldwide to productively and cost-effectively install a variety of infrastructure. We back our equipment systems with a powerhouse of skilled sales, engineering and technical professionals dedicated to superior reliability and responsive service. Akkerman factory certified field technicians represent an extensive portfolio of hands-on equipment experience to train your crew on the project site. Aftermarket parts sales are efficiently dispatched to minimize project delays and ensure that your equipment is prepared for optimal performance on its next challenge.

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E-BERK
e-berk.com
E-BERK, a global leader in Tunneling and Foundation Technologies, is headquartered in Ankara, Turkey, with an 18,000 m² state-of-the-art manufacturing facility. For over 25 years, we have been the trusted partner of the tunneling industry, providing cutting-edge disc cutters and cutting tools for Tunnel Boring Machines. Our comprehensive product portfolio includes single, double, twin, and center disc cutters ranging from 7” to 21” in diameter, as well as scrapers, knives, buckets, rippers, ring cutters, and tail brushes compatible with all TBMs. We also produce our own brand TBMs (EPB, slurry, and single shield) and Multi-Purpose Service Vehicles (MPSV). We offer cutterwheel design and manufacturing services. Our innovative fabrication techniques deliver cost-effective, high-performance solutions to clients. With a presence in over 30 countries through our subsidiary E-BERK Corporation in the USA and ÖZSÖZ Group, in over 30 countries through our subsidiary E-BERK Corporation in the USA and ÖZSÖZ Group, we deliver unparalleled quality, safety, and results to our clients worldwide. Choose E-BERK for Excellence. Reliability. Success.
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CREG TBM Germany GmbH
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CREG - China Railway Engineering Equipment Group Co., Ltd. - is a leading TBM supplier for mechanized tunneling construction all around the world. CREG provides a full-range of TBM hard- and soft rock solutions together with its up-to-date technical solutions highly oriented towards project challenges and customer expectations.
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Germany
Phone: +49 211 522 889 00
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EarthGrid
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EarthGrid has invented plasma tunnel boring & trenching robots that are solar-powered, use no water, have zero emissions and can bore tunnels 100x faster at 1/10th the cost of conventional techniques. They are building a network of large, underground utility tunnels that improve infrastructure and rapidly accelerate the transition to 100% clean energy by enabling underground clean energy power lines, high-speed data, water, and wastewater, H2 pipelines, e-commerce parcel transportation via pneumatic tubes, etc. They have a BOMM model (Build, Own, Operate and Manage) to lease space to investment-grade utilities, and a BADASS model (Boring And Digging As A Simple Service) to charge per meter or cubic meter at costs of up to 80% below HDD, TBM, and conventional hard-rock trenching.

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With over 40 years of experience in the manufacturing of Tunneling and Drilling parts and consumables, the Palmieri is nowadays one of the most experienced and specialized group of companies worldwide.

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info@palmiereigroup.com
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TERRATEC
www.terratec.co

Incorporated in 1990, TERRATEC is a world-renowned designer & manufacturer of Tunnel Boring Machines, encompassing all ground conditions and diameters — ranging from 0.60 to over 16 metres — as well as TBM back-up equipment, Raise Boring Machines and other custom-engineered products for the tunnelling and mining industries. TERRATEC’s success is based on the experience and excellence of its global engineering team. TERRATEC is also fully managed by engineers enabling quick and efficient solutions that meet customer expectations.

TERRATEC products are well-known in the industry as Robust, Durable and Safe, basic principles that must prevail in the design of any equipment made to work in the extreme conditions encountered underground. Providing Total Tunnelling Solutions, TERRATEC’s scope of work extends to custom engineering, as well as the operation and maintenance of tunnel boring equipment and the supply of ancillary equipment.

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TERRATEC offers full range of equipment from pipe jacking machine to open TBM, soft ground to very hard rock machine. TERRATEC’s continuing success on global projects is a result of tailor-made robust TBM design, prompt onsite assistance, readily available stock of TBM spares and highly-skilled specialised TBM support throughout tunnelling operations.

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Innovative Wireless Technologies (IWT)
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Innovative Wireless Technologies, Inc. (IWT) is the leading supplier of wireless communication, tracking and data systems for underground applications. IWT’s SENTINEL™ system is easy to install and maintain and provides clear voice communications for maximum productivity and low cost of ownership. Continuous tracking and sensor data is also available – all in one system. IWT offers line-powered infrastructure for long term projects, or battery-powered infrastructure for short term inspections. IWT equipment is 100% recoverable and reusable once the project is completed.

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RiteChoice Ducting is a leading US manufacturer of flexible ducting for tunneling and underground
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For over four decades, Channeline has been a global leader in the custom design and manufacture of high-quality, fully structural glass reinforced plastic (GRP) lining systems in any shape, and any size, for the trenchless rehabilitation of existing sewers, tunnels, culverts, stormwater, and other buried structures. With a worldwide presence in over 30 countries, we offer turnkey, innovative, and sustainable solutions with a design life of 150 years, for our clients, consultants, and contractors from design to installation.

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Dolenco Tunnel Systems

www.dolencodrain.com

Dolenco Tunnel Systems is manufacturer of Dolenco® Drain, a unique drainage solution for tunnels and other underground structures.

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We help to improve underground structures and keep it dry during the lifetime of the structure, and reduce construction time, costs and CO2.

Build safe underground structures, by permanently preventing pressure with Dolenco® Drain.

Mark Rjabenko
Business Development Representative
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Frontier-Kemper’s Mine Development Division provides comprehensive, mine development services to our owners and partners. With techniques such as Blind Drilling, Raise Boring, Conventional Shaft Sinking, and Slope Construction, Frontier-Kemper has developed underground mines for coal, salt, copper, gold, and other minerals throughout North America.

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HUESKER Inc.

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HUESKER Inc. - Made in America since 1991.

Minegrid® has become the industry standard for longwall recovery, roof, and rib control due to its high strength-to-weight ratio, flexibility, and safe handling.

HUESKER has supplied over 1,400 Minegrid® longwall recovery systems in the United States, Australia, South Africa, Norway, and the United Kingdom since 1994, making coal mining safer, faster, and more cost-effective.

Minegrid® conforms to Fire Retardant Anti-Static (FRAS) requirements, which complies with Standardized Small Scale Flame Test Procedure for the Acceptance of Roof-Rib Grid Material from MSHA.

Minegrid® is used successfully as rib support, highwall protection and in shotcrete applications due to ease of handling and installation, durability and withstandng extreme conditions, while still offering higher tensile strength compared to wire mesh.

Over the course of four decades, HUESKER’s Minegrid® has earned a global reputation for increased safety and productivity.

Tom Bailey
Business Area Manager - Mining
P.O. Box 411529, Charlotte, NC 28241, USA
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MAPEI UTT

MAPEI’s UTT team’s experts understand underground construction’s challenges & provide customized solutions including chemicals for shotcrete, mechanized tunneling, injection & waterproofing.

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MICHELS CORPORATION

http://www.michels.us

Michels is a turnkey contractor for the design and construction of trenchless solutions for energy, energy transition, transportation, water and wastewater projects in North America. Through early contractor involvement and alternative delivery models, Michels partners with customers to clearly understand the desired outcome before reviewing options and rights to provide customers with the safety, best-value options for completing complex projects.

Michels’ self-performed support services include shafts and bracing systems to connect underground work areas to the surface while keeping crews and equipment separated from water, groundwater, rock and soil.

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Brownsville, WI 53006
Telephone: 920-583-3132
E-Mail: corpinfo@michels.us

barchip inc.

www.barchip.com

BarChip is the world’s leading manufacturer of high-performance macro synthetic fiber concrete reinforcement. BarChip is a solutions provider, not just a fiber supplier, and is focused on providing customers with the highest level of technical and application support. For more than two decades BarChip has supplied trusted reinforcement solutions to clients all over the world and has become the fiber of choice for major infrastructure projects.

Research and development are core philosophies of BarChip, who engage in world leading research with academic institution and industry bodies that keep BarChip as the industry benchmark for high performance fiber reinforcement.

We believe the future of concrete reinforcement exists in materials that:

- Eliminate corrosion.
- Are low carbon.
- Are safe and easy to install.
- Reduce construction time and cost.
- Enable 100+ year design life with minimal maintenance.

By embracing BarChip technology, we’ve created a concrete reinforcement system for the 21st century, a system that delivers long lasting value to our customers and to society.

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channeline

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For over four decades, Channeline has been a global leader in the custom design and manufacture of high-quality, fully structural glass reinforced plastic (GRP) lining systems in any shape, and any size, for the trenchless rehabilitation of existing structures.
**DEZURIK INC.**

**www.dezurik.com**

DeZURIK, an innovative global leader in valve technologies, offers a wide range of rugged and reliable valves for mining. The company manufactures industry-leading severe service valve gates, urethane lined knife gates, eccentric plug valves, high performance butterfly valves, swing check valves, air valves, rotary control valves, and more. DeZURIK offers more knife gate valve styles than any other manufacturer, ensuring the right valve can be specified for each application.

250 Riverside Avenue North
Sartell, MN 56377
Telephone: (320) 259-2000
Fax: (320) 259-2227
Email: info@dezurik.com

**BENEFITS**

- Flexible solutions
- Strong service support
- Adherence to local regulatory requirements
- Management of variance applications
- Planning, risk assessment, safety and adherence to local regulatory requirements
- Custom solutions that are designed to improve efficiency, environment and safety.

**VALVES**

**ASC Engineered Solutions**

**www.asc-es.com**

ASC Engineered Solutions (formerly Anvil International & Smith-Cooper International) is defined by quality—in its products, services and support. With nearly 2,000 employees, the company’s portfolio of precision-engineered piping support, valves and connections provides products to more than 4,000 customers across industries, such as mechanical, industrial, fire protection, oil and gas, and commercial and residential construction. Its portfolio of leading brands includes ABZ Valve®, AFCON®, Anvil®, Anvil EPS, Basic-PSA, Beck®, Catavissa, Cooplet®, FlexHead®, FPPI®, Gruvlok®, J.B. Smith, Merit®, NAP®, Quadrant®, SCI®, Sharpe®, SlideLOK®, SPF®, SprinkFLEX®, Trenton Pipe, and VEP. With headquarters in Oak Brook, IL, ASC also has ISO 9001:2015 certified production facilities in PA, TN, IL, TX, AL, LA, KS, and RI.

**G+ Plastics**

**www.plasticminer.com**

G+ is dedicated 100% to the mining industry. Since 1995, G+ develops high performance plastics products for mining applications. Our ventila-
tation product line is made to answer the production requirements with the highest level of efficiency to exceed air volume at the lowest energy consumption. We have succeeded ambitious projects, in the last decade, where we have been pushing back the limits of auxiliary ventilation.

180 rue d’Évaïn
Roxyn-Noranda, Quebec, Canada JOZ 1Y0
Ph : (819) 768-8888
info@plasticminer.com

WASTEWATER MANAGEMENT PRODUCTS

EcoMister Evaporator
www.ecomister.ca
Looking for a reliable solution for safe and controlled water management? The EcoMister Evaporator is your answer! Proven and dependable, the EcoMister extends the life of your evaporation or containment ponds, eliminating the need for additional facilities and significantly reducing water treatment costs. By efficiently reducing water volumes, it lowers the risk of storage facility failure, ensuring peace of mind and operational efficiency. Don’t let water management challenges hold you back—opt for the EcoMister and experience the benefits of cutting-edge technology.

For more information, contact us at sales@ecomister.ca or give us a call 1-800-495-6145
Transform your water management strategy with EcoMister today!
559 Okanagan Ave Eas
Penticton, BC, V2A 3K4 Canada
Phone: 250-493-6745
sales@ecomister.ca

WATER TREATMENT PLANT AND MATERIALS

Veolia Water Technologies
www.veoliawatertech.com
The global leader in water and wastewater treatment. Veolia Water Technologies partners with exploration, engineering, and mining companies to solve even the most difficult mine water challenges. We provide a full range of mine water treatment services including preliminary and detailed engineering, standard and custom water treatment equipment, maintenance support and mobile water treatment options.

We understand the unique requirements of mining operations and our worldwide expertise in mine water issues allows us to offer specialized water treatment solutions that treat water and efficiently remove a wide range of contaminants in order to help comply with discharge requirements and stringent regulations.

4001 Weston Parkway
Cary, NC 27513
Telephone: 1-800-337-0777
Email: water.info@veolia.com

WATER TREATMENT SOLUTIONS (WATER CLARIFICATION AND TREATMENT)

Kurita America
https://www.kuritaamerica.com/
Kurita America is a global, customer-focused water solutions company, offering water system harmonization that incorporates chemical, mechanical, and operational components. The combined experience and capabilities of our legacy companies here in the United States, joined with the power derived from Kurita’s 70+ years of global leadership and unwavering investment in research and development, are the pillars of our organization.

Kurita America identifies the root causes of our customers’ water challenges and develops mutually beneficial long-term partnerships that enable us to deliver optimal results and overall lower cost of ownership while conserving natural resources for a better, more sustainable world. These water treatment solutions prevent unscheduled downtime and improve system efficiency.

Kurita America’s extensive line of pre-treatment equipment is designed to improve water quality by removing impurities that can cause fouling, corrosion, and scale. Coupled with our automation programs, we help reduce excess water and energy consumption.

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Twitter: https://twitter.com/kurita_america

WEAR RESISTANT STEEL PRODUCTS

JADCO Manufacturing, Inc.
www.jadcomfg.com
JADCO Manufacturing, Inc., established in 1980, is a leading provider of proven wear protection to combat even the toughest impact and abrasion challenges. JADCO delivers unmatched technical expertise, quality, and customer service. JADCO offers an unparalleled array of wear-fighting products, particularly wear steel, to optimize a user’s operations with brands including QT-PLUS® and CHROMEWELD. Our QT-PLUS® wear steel outlasts commodity AR400 wear steel 3-5 times. While our CHROMEWELD, chromium-carbide over-lay plate (offered in multiple chemistries), stands up to the toughest abrasion wear conditions.

With our roots in the coal mining industry, we have taken our knowledge and experience of wear challenges and branched out into multiple areas, including: Steel Mills, Pulp and Paper, Mining, Tunneling, Agriculture, and Waste and Recycling.

JADCO Manufacturing, Inc.
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JACOBI CARBONS, INC.
www.jacobi.net
Jacobi Carbons, a division of Jacobi Group, is the world’s largest manufacturer of coconut-shell activated carbon, with products tailor made for the gold recovery market. Jacobi also has a fully integrated ion exchange resin business unit, which offers a diverse and deep product portfolio for specialty mining applications. And Jacobi Services specializes in the design, operation, and service of equipment related to both activated carbon and ion exchange technology.

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WATER CLARIFICATION AND TREATMENT

Aquatech
https://www.aquatech.com/
Aquatech is a global leader in water technology and services for the mining industry. With a focus on solving water scarcity through desalination, water reuse, and minimal/zero liquid discharge (MLD/ZLD), Aquatech has executed over 2,000 projects across 60 countries. Leveraging the technology and services for the mining industry.

Aquatech helps the world’s most recognized companies solve their complex water-related challenges, including water scarcity, carbon and water footprint reduction, and sustainable water operations.

Website: https://www.aquatech.com/
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